

ABSTRACT

A stent and stent delivery system are described for the sidebranch ostium. A two-zone balloon is being used as a stent delivery system. The initial inflation will cause the split proximal end to flare apart. If the stent is delivered on a standard balloon angioplasty catheter, then a second balloon of larger diameter would be used to post-dilate the proximal end of the split end stent. A stent is then advanced into the main branch and deployed, further spreading the split proximal and of the split end sidebranch stent outward against the wall of the main branch. A guidewire is then placed through the main branch stent and the opening into the sidebranch is enlarged using balloon inflation.